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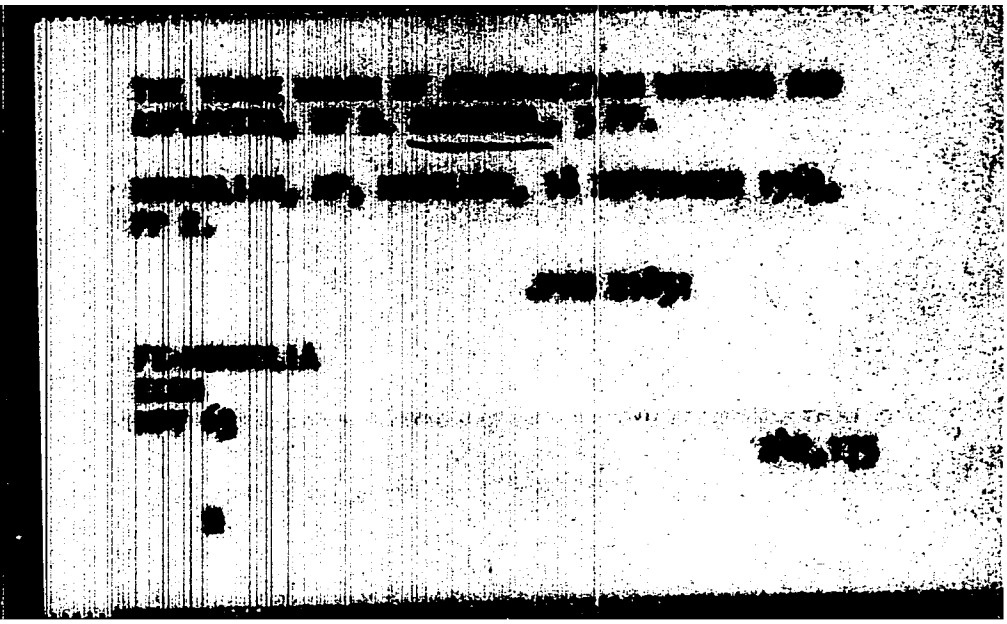

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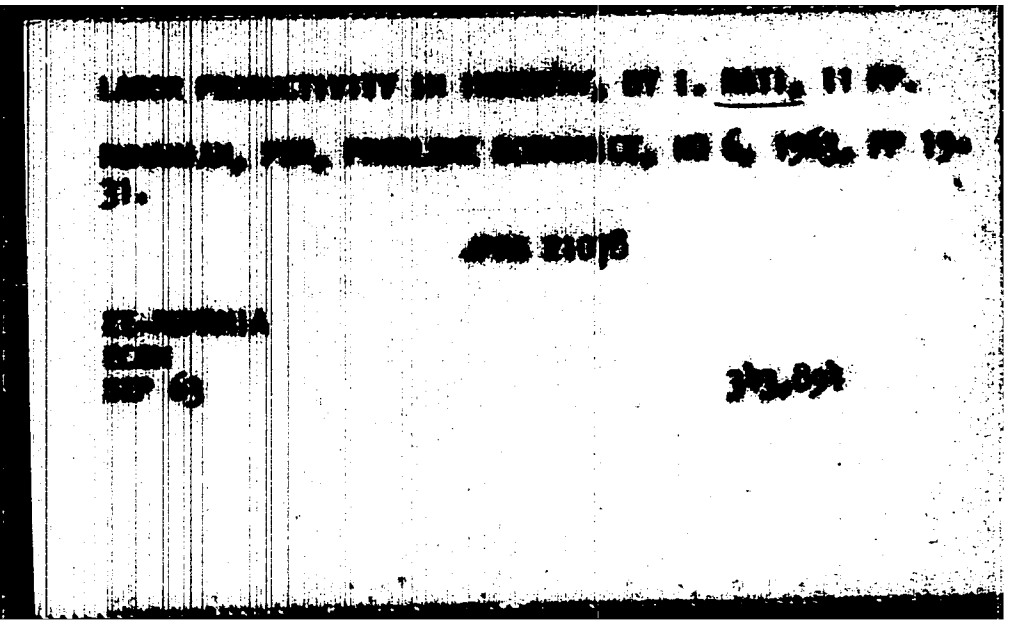

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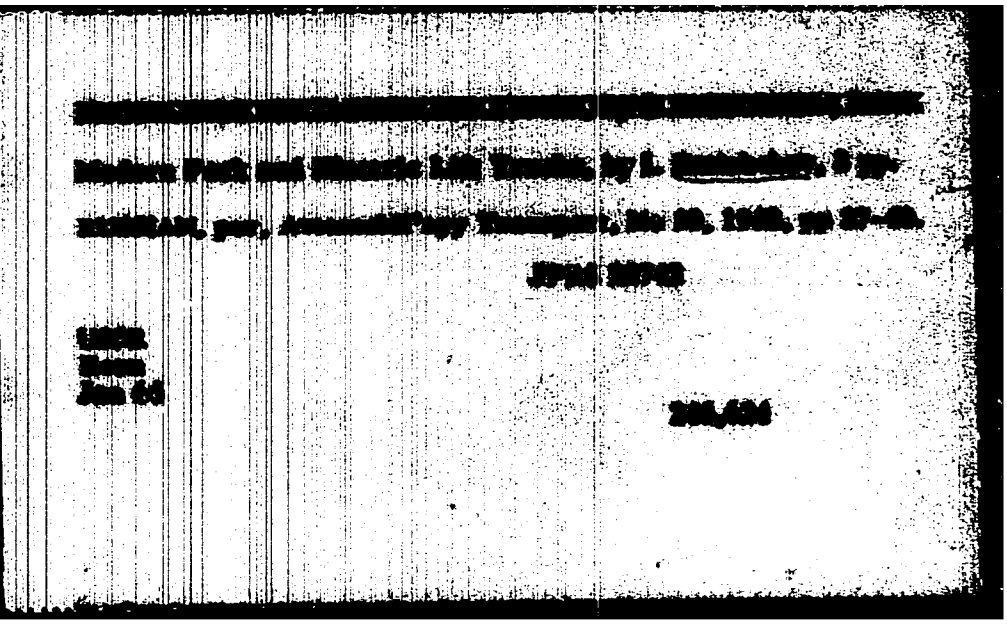

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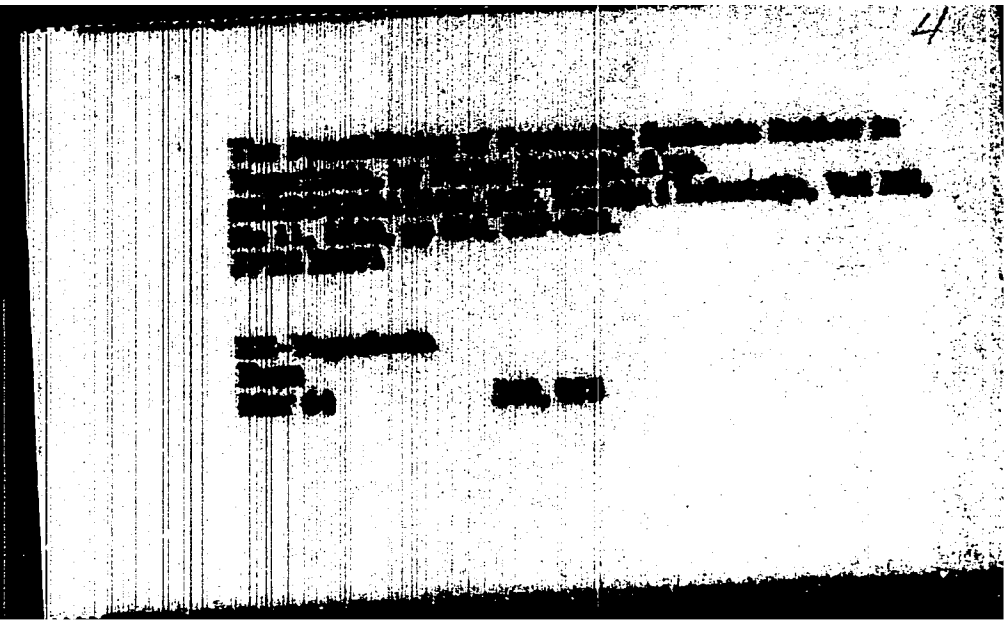

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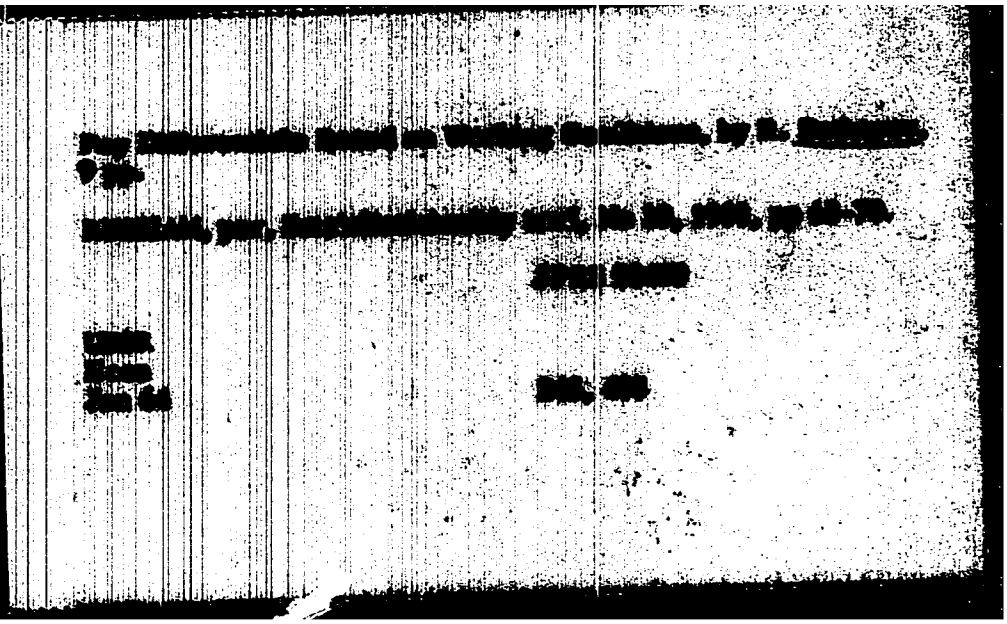

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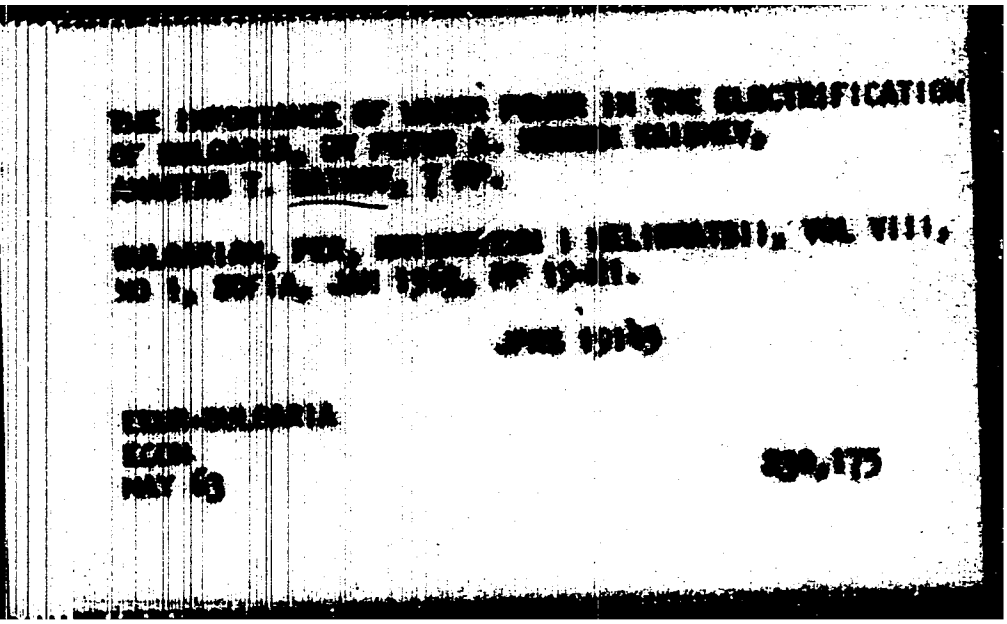

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FIRST-ORDER PERTURBATIONS IN THE MOTION OF EARTH SATELLITES DUE TO OBLATENESS OF THE EARTH. V. F. Proskurin and Yu. V. Batrakov. November 1960. 12p. OTS price, $0.50.
(NASA TECHNICAL TRANSLATION F-45. Translation from Iskusstvennyy Sputnik Zemli, no. 3, 1959, p. 32-38 (USSR))

An analytical theory is presented for artificial earth satellites, on the assumption that the oblateness of the planet is small enough so that the perturbation function in powers of the oblateness can be limited to the term containing only the first powers of the oblateness of the earth. This portion of the perturbation function is expanded in powers of the eccentricity. Integration of the ordinary Lagrange equations yields analytical expressions of the first-order perturbations relative to the oblateness of all of the elements of the orbit, accurate to the fourth degree of the eccentricity inclusive.
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PERTURBATIONS OF ORBITS OF ARTIFICIAL SATELLITES DUE TO AIR RESISTANCE. Yu. V. Batrakov and V. F. Proskurin. November 1960. 13p. OTS price, $0.50.
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Presentation of a general form of the first-order perturbations in the elements of an elliptic satellite orbit, caused by the resistance of the air, is undertaken. It was assumed that the earth's atmosphere has a fully spherical density distribution and that the attraction of the earth can be replaced by the attraction of the material point, placed at its center of inertia and having the same mass as the earth. These assumptions, along with the secular perturbations, are used to obtain faster perturbations whose periods do not exceed the period of one rotation of the satellite.

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